

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (currently amended): A printer comprising:

a paper holder provided with a first guide portion and a second guide portion for positioning a roll of paper,

the first guide portion being disposed at a position where the roll of paper is to be retained as the roll of paper is reduced in diameter when the printer is in a first installation state,

the second guide portion being disposed at a position where the roll of paper is to be retained as the roll of paper is reduced in diameter when the printer is in a second installation state; and

paper near end detecting means configured to detect that the amount of remaining paper is below a predetermined amount, the paper near end detecting means comprising a first detector and a second detector disposed to be engageable with an end face of the roll of paper, and a sensor which senses operations of the first detector and the second detector;

wherein the first detector is a detector for the first installation state disposed closer to and is disengaged from the end face of the roll of paper when the roll of paper is retained into the first guide portion, and the second detector is a detector for the second installation state, disposed closer to and is disengaged from the end face of the roll of paper when the roll of paper is retained into the second guide portion, and

the first detector and the second detector are disposed within an area that is defined by three surfaces, the three surfaces being a hypothetical plane formed by a locus of a movement of the center axis of the roll of paper as the roll of paper is reduced in diameter and retained by the

first guide portion, a hypothetical plane formed by a locus of a movement of the center axis of the roll of paper as the roll of paper is reduced in diameter and retained by the second guide portion, and an inner surface of the paper holder defined between the first guide portion and the second guide portion.

2. (previously presented): The printer as claimed in claim 1, wherein the first detector and the second detector are integrally connected by a connecting member.

3. (previously presented): The printer as claimed in claim 1, wherein the first detector and the second detector are movable to change the predetermined amount of paper.

4. (previously presented): The printer as claimed in claim 2, wherein the first detector and the second detector are movable to change the predetermined amount of paper.

5. (previously presented): The printer as claimed in claim 1,  
wherein a gap is provided in the paper near end detecting means through which paper drawn from the roll is conveyed after one of the detectors gets disengaged with the end face of the roll of paper.

Claim 6 (canceled).

7. (new): A printer comprising:

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a paper holder comprising first and second guide portions, wherein the first and second guide portions are operable to hold a roll of paper when said printer is oriented in first and second installation states, respectively;

a first detector operable to engage an end face of the roll of paper when the printer is oriented in the first installation state to detect when the roll of paper is nearly depleted and disengaged from the end face of the roll of paper when the printer is oriented in the second installation state;

a second detector operable to engage the end face of the roll of paper when the printer is oriented in the second installation state to detect when the roll of paper is nearly depleted and disengaged from the end face of the roll of paper when the printer is oriented in the first installation state.

8. (new): A printer as claimed in claim 7, further comprising a plate that connects said first and second detectors and is operable to pivot about a pivot axis located along one side of said plate.

9. (new): A printer as claimed in claim 8, wherein the pivot axis is parallel to the end face of the roll of paper.

10. (new): A printer as claimed in claim 7, wherein said first and second detectors remain static when the printer orientation is changed between the first and second installation states.

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11. (new): A printer as claimed in claim 8, further comprising an adjustment portion connected to the side of said plate and operable to move said plate and said first and second detectors in a direction parallel to the end face of the roll of paper to adjust a trigger amount of the depleted paper.

12. (new): A printer as claimed in claim 7, further comprising a single switch in contact with said plate and operable to turn on an indicator device when at least one of said first and second detectors is not in contact with the end face of the roll of paper.